PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company **Bonanza Creek Operating Co. LLC**
Well **Antelope 22-18**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location
1980' FNL & 1980' FWL
SE NW
Sec - 18, Twp - 5N, Rge - 62W

Other Services
None

Elevation
K.B. 4627
D.F. 4626
G.L. 4617

Permanent Datum	GL	Elevation	4617
Log Measured From	KB		
Drilling Measured From	KB		

Date	May 5, 2010		
Run Number	1		
Depth Driller	6692		
Depth Logger	6690		
Bottom Logged Interval	6690		
Top Log Interval	Casing		
Casing Driller	413		
Casing Logger	413		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	8.8 / 55		
pH / Fluid Loss	8.5 / 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.42 @ 68° F		
Rmf @ Meas. Temp	2.62 @ 68° F		
Rmc @ Meas. Temp	4.09 @ 68° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.18 @ 196° F		
Time Circulation Stopped	1300		
Time Logger on Bottom	2245		
Maximum Recorded Temperature	196° F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	Kerry McCowen	Robin Brackman	Kurt Dodge

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

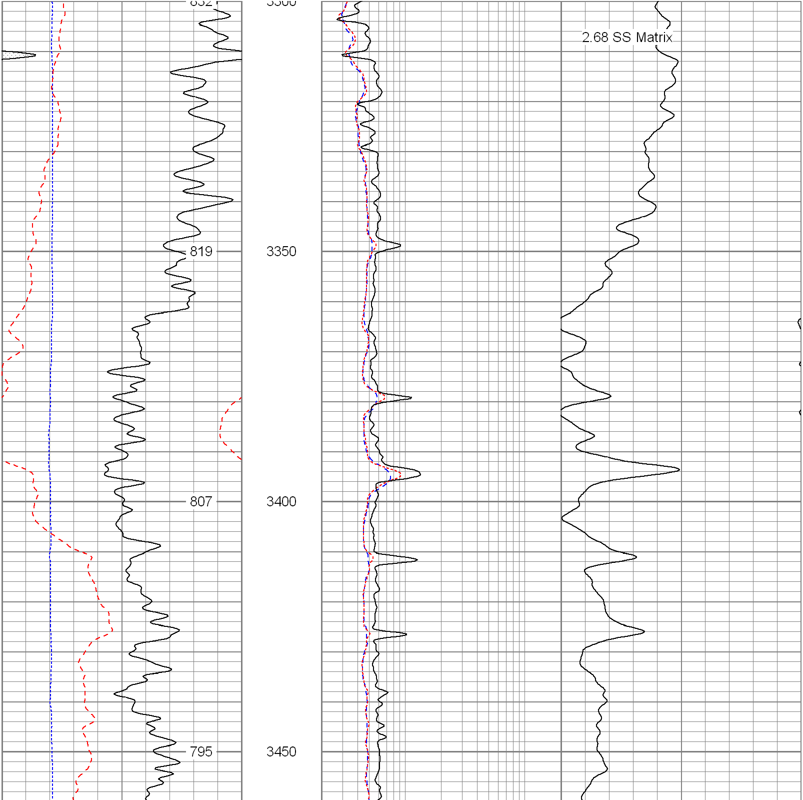
Annular volume calculated for 4.5" casing
Mid Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-30513-00

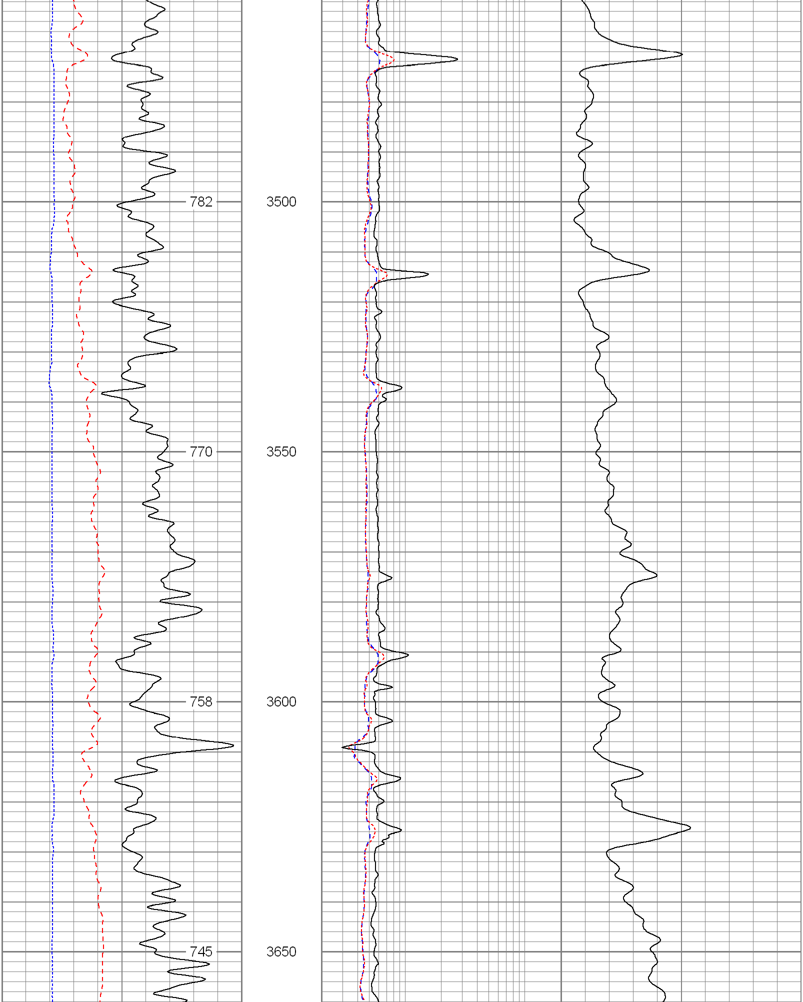
Database File: 10639.db
Dataset Pathname: pass3
Presentation Format: pdc1
Dataset Creation: Wed May 05 22:48:56 2010 by Log Open-Cased 081212
Charted by: Depth in Feet scaled 1:240

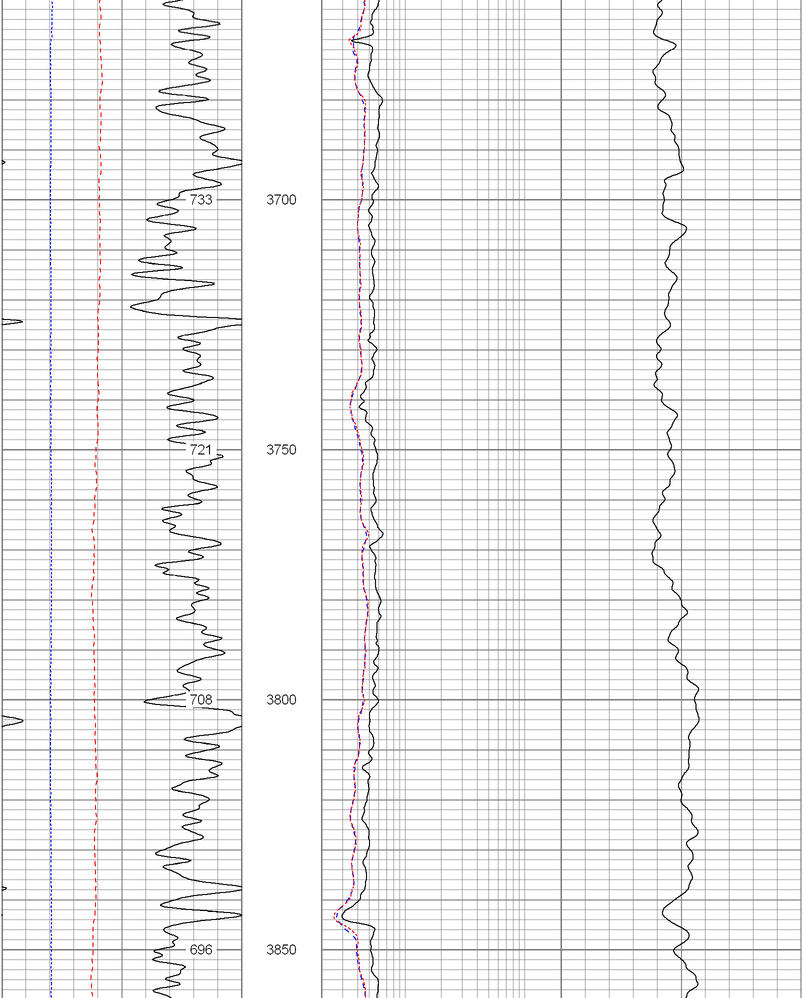
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
80 SP (mV) 180
ABHV (ft3)

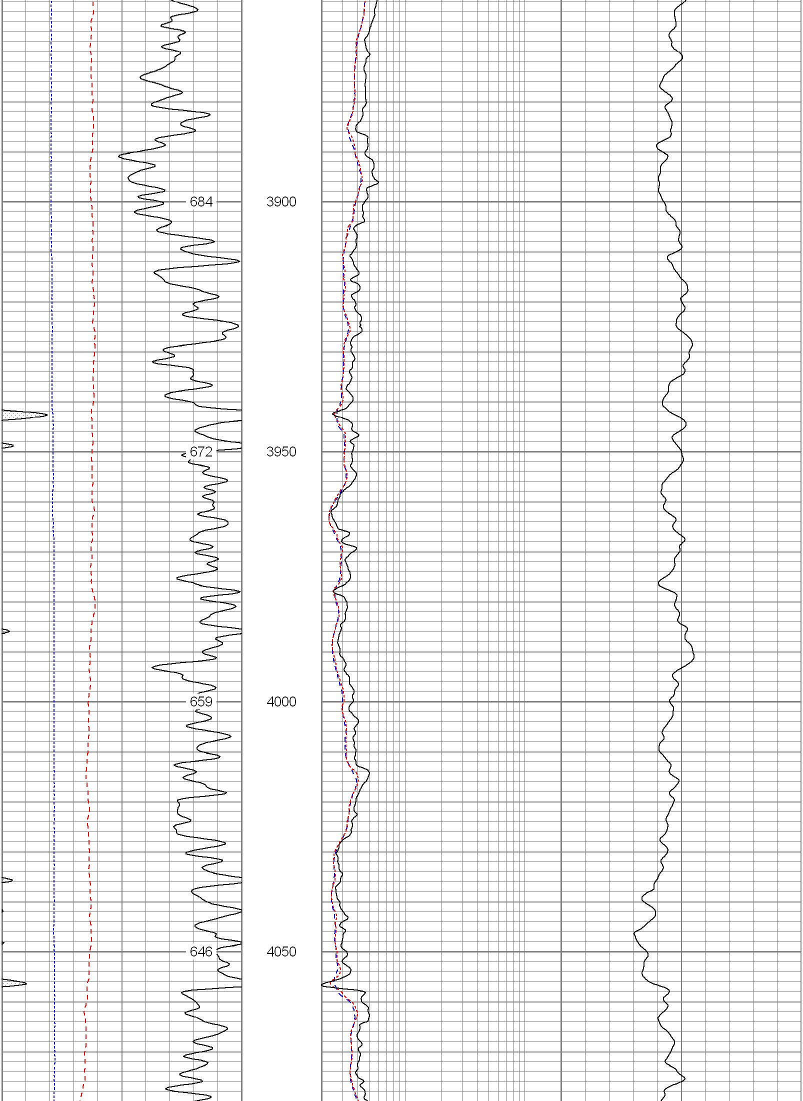
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

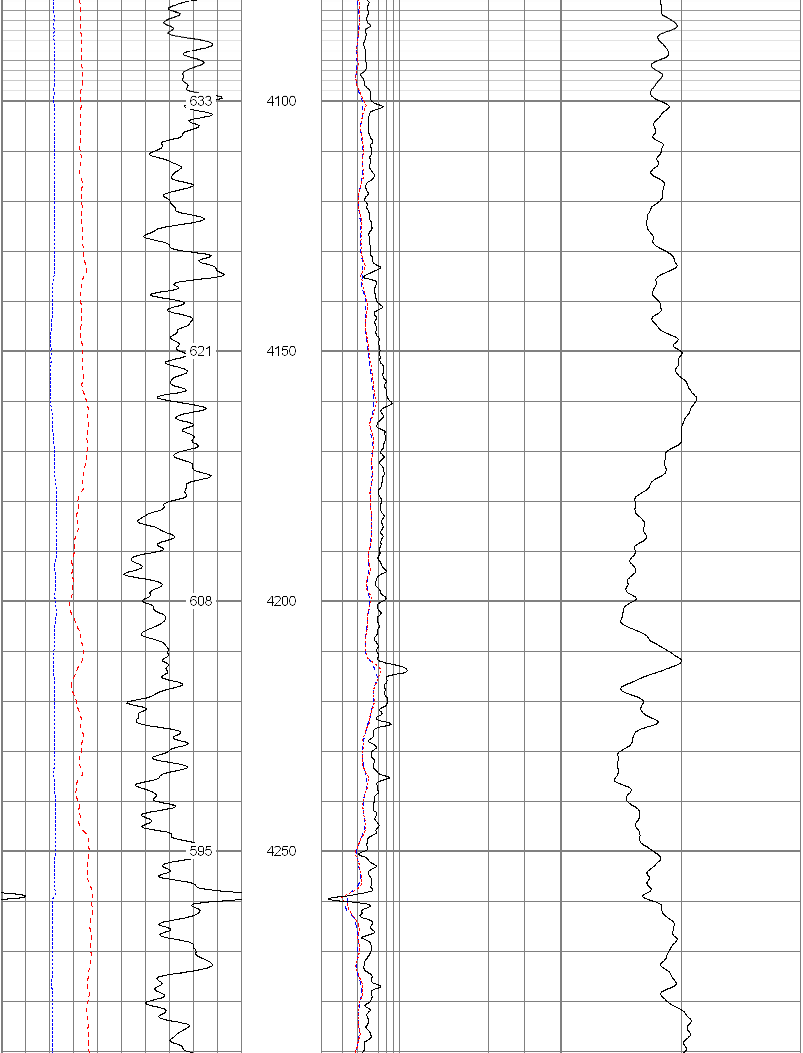
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

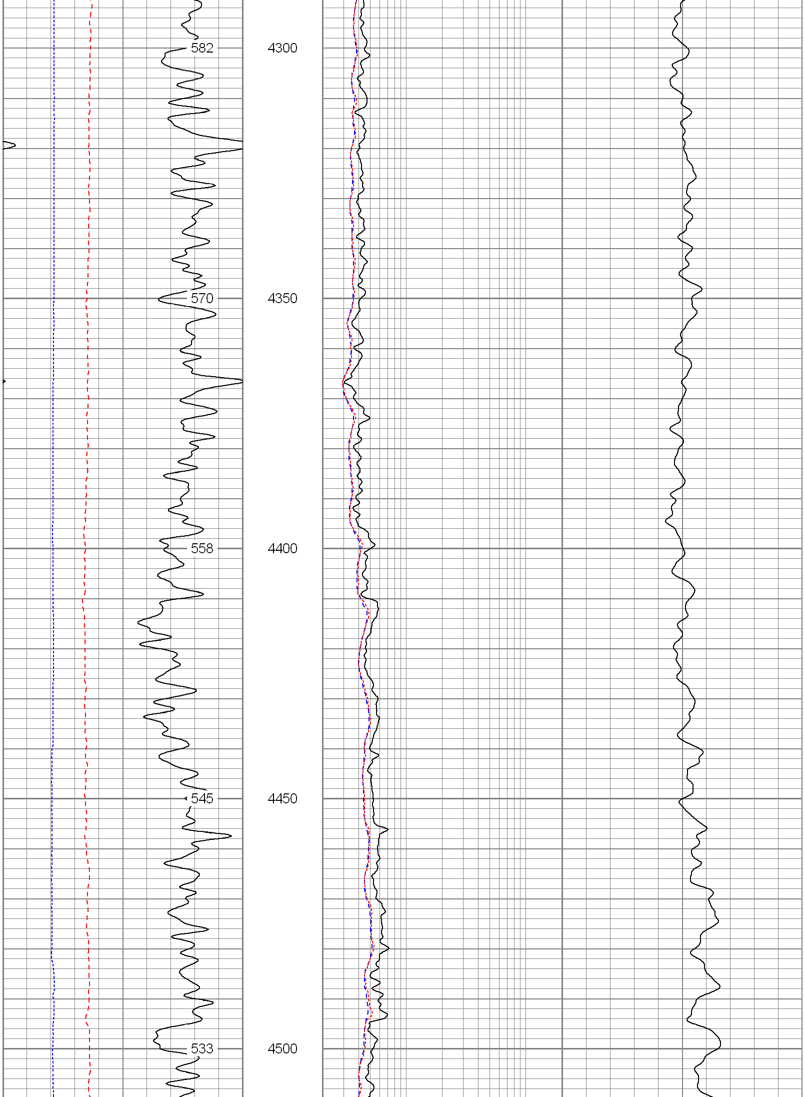


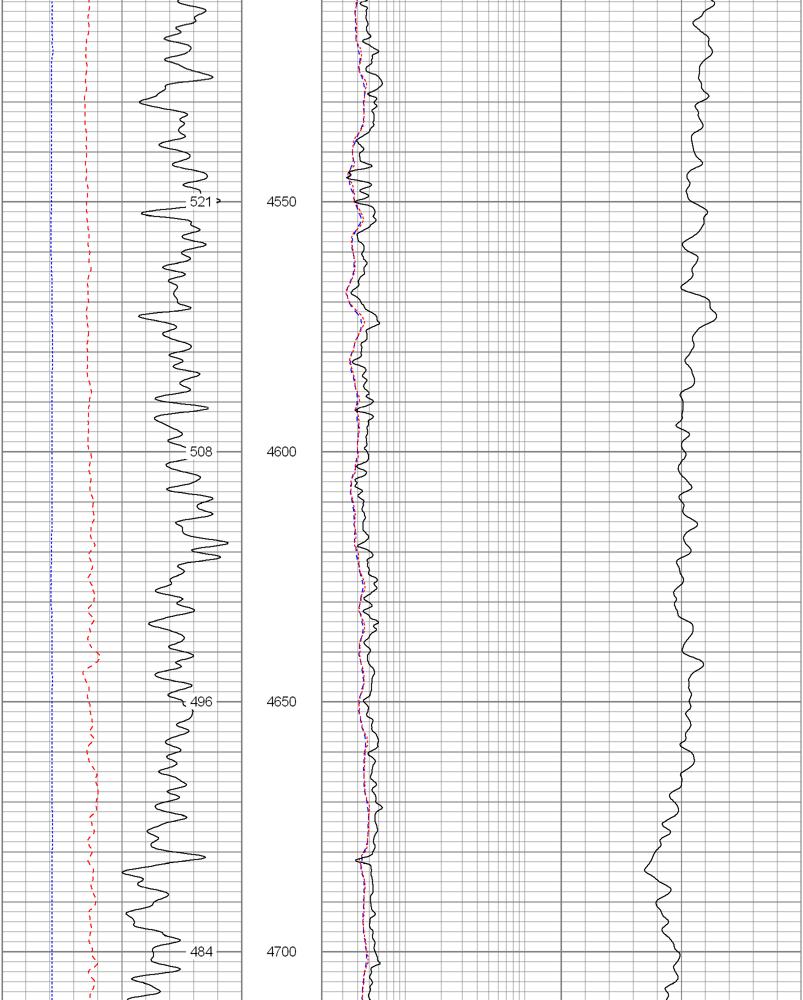


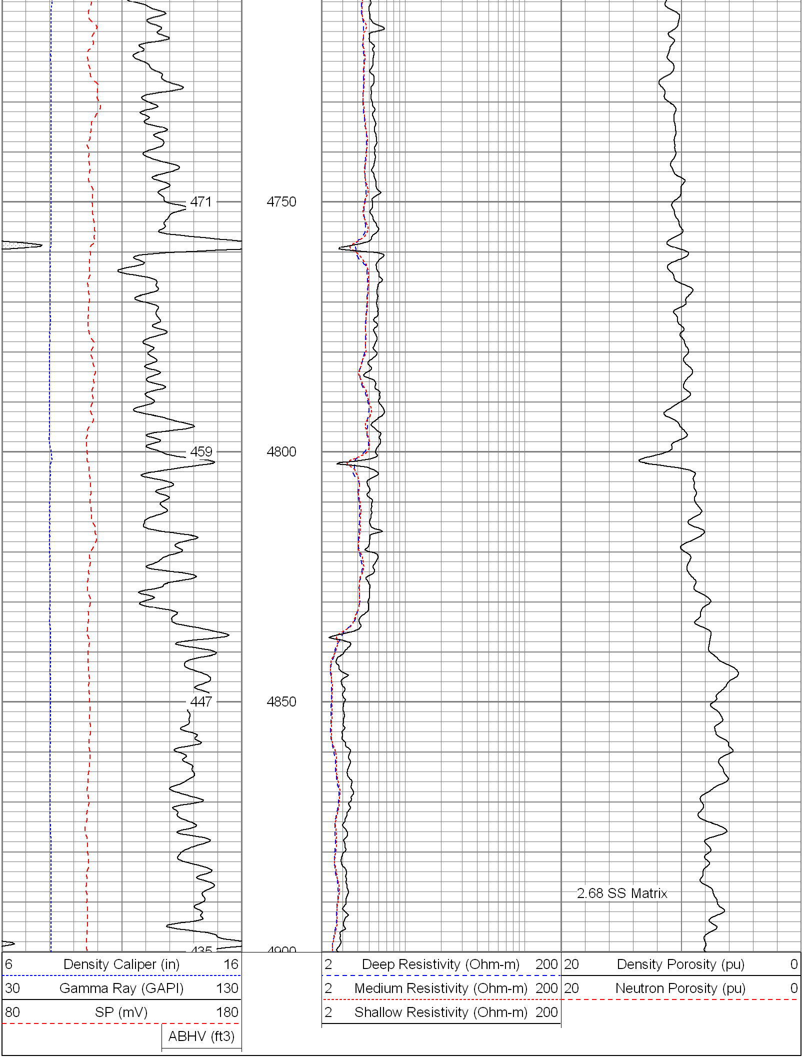












Database File:	10639.db
Dataset Pathname:	pass3.1
Presentation Format:	pdc
Dataset Creation:	Wed May 05 23:04:55 2010 by Calc Open-Cased 081212
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16

0 Gamma Ray (GAPI) 200

0 SP (mV) 200

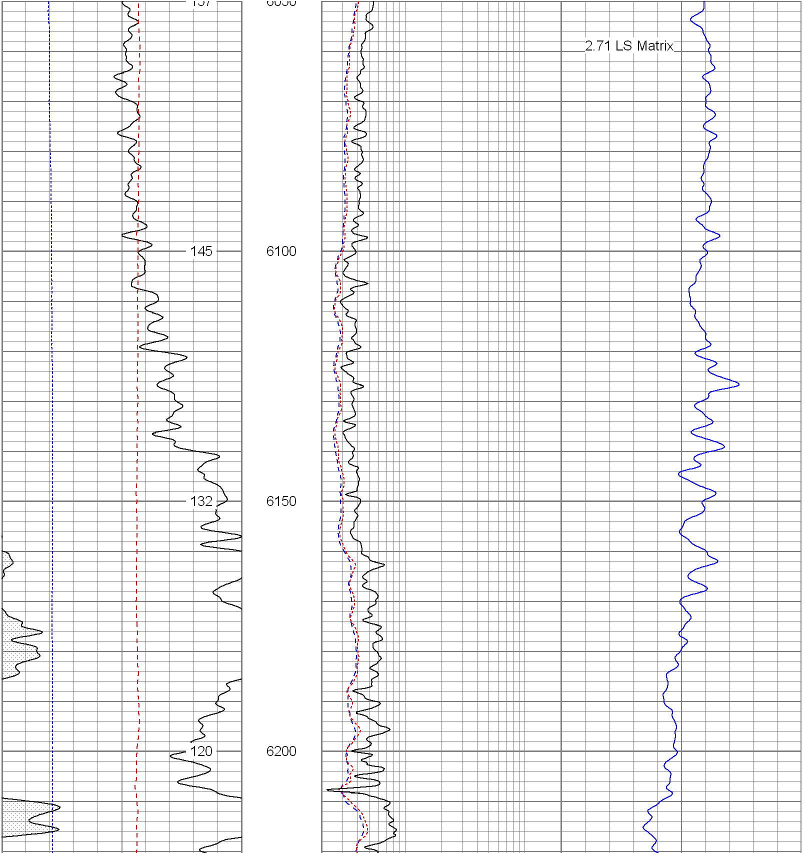
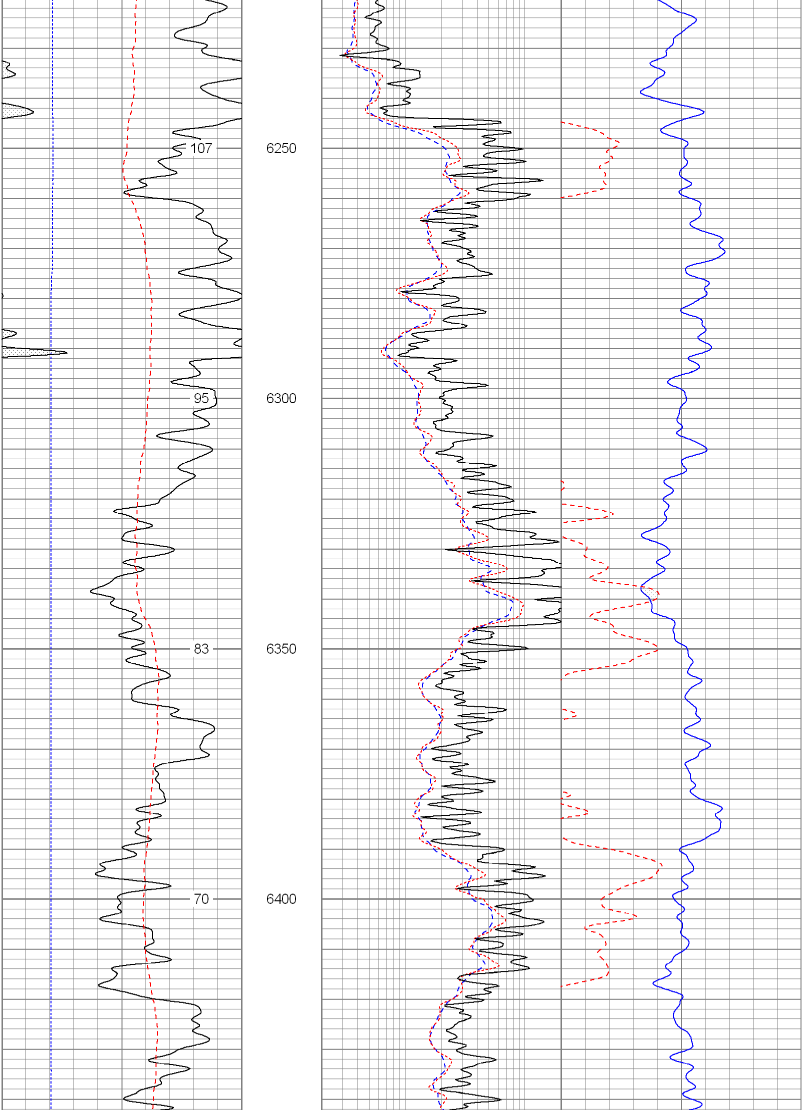
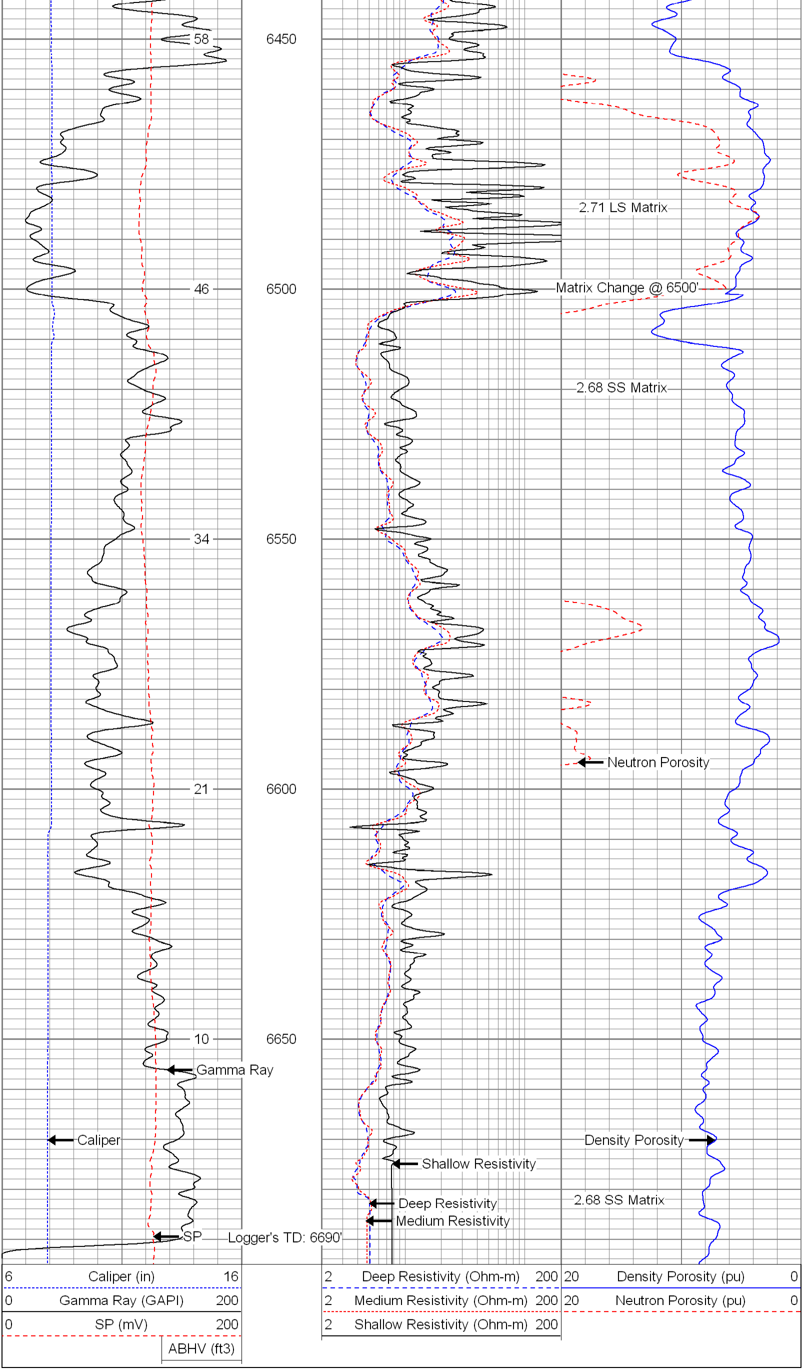
ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200

2 Medium Resistivity (Ohm-m) 200

2 Shallow Resistivity (Ohm-m) 200

20 Density Porosity (pu) 0

20 Neutron Porosity (pu) 0